

Amendments to the Specification:

Please replace the title as follows:

~~HOLOGRAPHIC MULTIPLE RECORDING METHOD, HOLOGRAPHIC RECORDING~~
~~DEVICE USING THE SAME, AND HOLOGRAPHIC RECORDING MEDIUM~~
HOLOGRAPHIC MULTIPLEX RECORDING METHOD, AND HOLOGRAPHIC
RECORDING APPARATUS AND HOLOGRAPHIC RECORDING MEDIUM
EMPLOYING THE METHOD

Please replace the paragraph beginning on page 3, line 24, with the following rewritten paragraph:

In summary, the above-described objectives are achieved by the following aspects
embodiments of the present invention.

Please replace the paragraph beginning on page 5, line 1, with the following rewritten paragraph:

(4) The holographic multiplex recording method according to ~~(3) or (4)~~ (2) or (3), wherein, when a recording sensitivity of the holographic recording medium is reduced to less than or equal to $1/N^2$ (N is an integer equal to two or greater) of an initial value of the recording sensitivity, the number of pixels of the spatial light modulator to be allocated to one bit of the information is increased to N^2 .

Please replace the paragraph beginning on page 10, line 22, with the following rewritten paragraph:

An object beam which is incident upon the object optical system 18 is reflected by the mirror 18B, and is provided with data in the form of intensity modulation in the SLM 18C.

Thereafter, the object beam is ~~collected~~ converged and subjected to Fourier transform of intensity distribution by the Fourier lens 18D, and is projected onto the holographic recording medium 16.